

IOWA STATE UNIVERSITY

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Volume 16 | Issue 3

Article 10

1954

Vitamin A Deficiency in an Angus Steer

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Recommended Citation

Crawley, Jack (1954) "Vitamin A Deficiency in an Angus Steer," *Iowa State University Veterinarian*: Vol. 16 : Iss. 3 , Article 10.
Available at: https://lib.dr.iastate.edu/iowastate_veterinarian/vol16/iss3/10

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was outlined. The cow received three million units of penicillin in oil intramuscularly on Feb. 19, 20, 22, 24, and 26. Throughout the course of the treatment the temperature remained normal. The cow ate normally and rumen motility was normal. On February 22 the urine no longer showed any discoloration.

The laboratory report confirmed the diagnosis of the presence of *C. renale* on Feb. 26, 1954.

Recovery was uneventful, however, the penicillin was still given after the bloody urine was cleared up. The cow was discharged on Feb. 28, 1954.

In cases such as this it is frequently found that there is a recurrence of the condition if penicillin is discontinued as soon as the urine is blood-free. The case indicates that continuation of therapy for at least 10 days will aid in combating *C. renale* infections.

Murray Fowler, '55

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Vitamin A Deficiency In An Angus Steer.

A black Angus steer was admitted to the Stange Memorial Clinic on March 3, 1954 with a history of weight loss. The animal had lost 200-300 pounds in five months while on full feed. There was swelling of the brisket and the front legs, anorexia and considerable irritability upon handling. The temperature was normal and the animal showed no visible lesions. It was one of five animals in a herd showing similar symptoms. The ration consisted of clover and timothy hay cut the previous June, last season's ground whole corn, a commercial supplement and a salt and mineral mixture. A blood sample was citrated and sent to the chemistry department for vitamin A determination. The next day, March 6, the following results were returned: Vitamin A, 21.4 μ gm. per 100 cc. and carotene, 37.7 μ gm. per 100 cc. The normal value for vitamin A is 35 μ gm. per 100 cc. and the normal carotene value is 200 μ gm. per 100 cc. The reason for this deficiency while on the ration described is unknown. However, this con-

dition has been diagnosed in a number of herds in a geographical area corresponding to the drouth area of 1953.

The patient was given a vitamin A and D supplement for six days and was discharged on March 11, 1954.

Jack Crawley, '55

Carlin is the old name for the pug dog, but it is now obsolete.

Rabies killed 52 people in Japan during 1950. There were 867 cases in dogs.

Slow intravenous injection of the equivalent of three-eighths unit of curare per pound of body weight for dogs under a light plane of pentobarbital anesthesia increases the apparent depth of anesthesia and effects marked relaxation of muscle tissue.

Liver biopsies are common practice in medicine to determine the presence of carcinoma, lymphoma, and amyloidosis as well as the operability of patients in which splenorenal anastomosis is considered. Since the late war, interest in this method of diagnosis has increased. A 14-gauge needle of special design, into which a split cannula is introduced at the proper time, provides means for obtaining satisfactory material for biopsy. Drs. Brick and Horstman discuss the subject and present case reports to show the value of liver biopsies.

Asthma is derived from the Greek word *astma*, meaning to pant.

Airwick used in the puppy house is claimed to be very effective in keeping away flies and mosquitoes.